



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RENNER *et al.*

Appl. No. 10/050,898

Filed: January 18, 2002

For: **Molecular Antigen Array**

Confirmation No. 7794

Art Unit: 1645

Examiner: *To be assigned*

Atty. Docket: 1700.0190005/BJD/SJE

Fifth Supplemental Information Disclosure Statement

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. This Fifth Supplemental Information Disclosure Statement is supplemental to Applicants' Fourth Supplemental Information Disclosure Statement (IDS) filed electronically on August 19, 2003. A copy of each document is also provided.

In accordance with 37 C.F.R. § 1.98(a)(3), Applicants' undersigned representative submits the following concise explanation of the relevance of the non-English language document, Document **AP3** cited on Form PTO-1449:

Document **AP3**, WO 94/06472 A1, is in the French language. The relevance of Document **AP3** can be ascertained by reference to the English language abstract appearing therein, and an unverified English language abstract attached as Document **AT94**.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

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Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Fifth Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono
Attorney for Applicants
Registration No. 42,473

Date: September 15, 2003

1100 New York Avenue, N.W.
Washington, D.C. 20005-3934
(202) 371-2600

FORM PTO-1449
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INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
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	AL5	WO 99/07839 A2	02/18/1999	WIPO			Yes No
	AM5	WO 99/40934 A1	08/19/1999	WIPO			Yes No
	AN5	WO 99/67293 A1	12/29/1999	WIPO			Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	83	Cramer, R. and Suter, M., "Display of biologically active proteins on the surface of filamentous phages: a cDNA cloning system for selection of functional gene products linked to the genetic information responsible for their production," <i>Gene</i> 137:69-75, Elsevier Science Publishers B.V. (1993)
	AS	83	Daniel, M.D., et al., "Protective Effects of a Live Attenuated SIV Vaccine with a Deletion in the nef Gene," <i>Science</i> 258:1938-1941, American Association for the Advancement of Science (1992)
	AT	83	de la Cruz, V.F., et al., "Immunogenicity and Epitope Mapping of Foreign Sequences via Genetically Engineered Filamentous Phage," <i>J. Biol. Chem.</i> 263:4318-4322, The American Society for Biochemistry and Molecular Biology, Inc. (1988)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	84	Donnelly, J.J., et al., "DNA Vaccines," Annu. Rev. Immunol. 15:617-648, Annual Reviews, Inc. (1997)
	AS	84	Ebina, S., et al., "Chemical Modification of Bovine Pancreatic Trypsin Inhibitor for Single Site Coupling of Immunogenic Peptides for NMR Conformational Analysis," J. Biol. Chem. 264:7882-7888, The American Society for Biochemistry and Molecular Biology, Inc. (1989)
	AT	84	Esposito, G., et al., "Conformational study of a short Pertussis toxin T cell epitope incorporated in a multiple antigen peptide template by CD and two-dimensional NMR: Analysis of the structural effects on the activity of synthetic immunogens," Eur. J. Biochem. 217:171-187, Blackwell Science Ltd. on behalf of the Federation of European Biochemical Societies (1993)

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	AR	85	Förster, E., et al., "Natural and recombinant enzymatically active or inactive bee venom phospholipase A ₂ has the same potency to release histamine from basophils in patients with Hymenoptera allergy," <i>J. Allergy Clin. Immunol.</i> 95:1229-1235, Mosby-Year Book, Inc. (1995)
	AS	85	Frolov, I., et al., "Alphavirus-based expression vectors: Strategies and applications," <i>Proc. Natl. Acad. Sci. USA</i> 93:11371-11377, National Academy Press (1996)
	AT	85	Gilbert, S.C., et al., "A protein particle vaccine containing multiple malaria epitopes," <i>Nat. Biotechnol.</i> 15:1280-1284, Nature America Publishing (1997)

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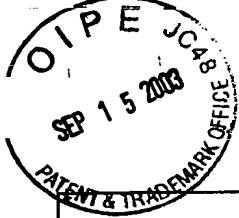
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	AR	86	Greenstone, H.L., et al., "Chimeric paillomavirus virus-like particles elicit antitumor immunity against the E7 oncoprotein in an HPV16 tumor model," <i>Proc. Natl. Acad. Sci. USA</i> 95:1800-1805, National Academy Press (1998)
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	AT	86	Harding, C.V., and Song, R., "Phagocytic Processing of Exogenous Particulate Antigens by Macrophages for Presentation by Class I MHC Molecules," <i>J. Immunol.</i> 153:4925-4933, The American Association of Immunologists (1994)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>87</u>	Hilleman, M.R., "Six decades of vaccine development - a personal history," <i>Nat. Med. Vaccine Suppl.</i> 4:507-514 (May 1998)
	AS	<u>87</u>	Hui, E. K-W. et al., "Hepatitis B viral core proteins with an N-terminal extension can assemble into core-like particles but cannot be enveloped," <i>J. Gen. Virol.</i> 80:2647-2659, Society for General Microbiology (1999)
	AT	<u>87</u>	Iannolo, G., et al., "Construction, Exploitation and Evolution of a New Peptide Library Displayed at High Density by Fusion to the Major Coat Protein of Filamentous Phage," <i>Biol. Chem.</i> 378:517-521, Walter de Gruyter & Co. (1997)

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	AR	88	Iannolo, G., et al., "Modifying Filamentous Phage Capsid: Limits in the Size of the Major Capsid Protein," <i>J. Mol. Biol.</i> 248:835-844, Academic Press, Ltd. (1995)
	AS	88	Ikram, H., and Prince, A.M., "A method for coupling the Hepatitis B surface antigen to aldehyde-fixed erythrocytes for use in passive hemagglutination," <i>J. Virol. Methods</i> 2:269-275, Elsevier/North-Holland Biomedical Press (1981)
	AT	88	Kovacsovics-Bankowski, M., et al., "Efficient major histocompatibility complex class I presentation of exogenous antigen upon phagocytosis by macrophages," <i>Proc. Natl. Acad. Sci. USA</i> 90:4942-4946, National Academy Press (1993)

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	AR	89	Lo, K. K-W., et al., "Surface-modified mutants of cytochrome P450cam: enzymatic properties and electrochemistry," <i>FEBS Lett.</i> 451:342-346, Elsevier Science B.V. on behalf of the Federation of European Biochemical Societies (1999)
	AS	89	Minenkova, O.O., et al., "Design of specific immunogens using filamentous phage as the carrier," <i>Gene</i> 128:85-88, Elsevier Science Publishers B.V. (1993)
	AT	89	Neurath, A.R., et al., "Hepatitis B Virus surface antigen (HBsAg) as carrier for synthetic peptides having an attached hydrophobic tail," <i>Mol. Immunol.</i> 26:53-62, Pergamon Press (1989)

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	AR	<u>90</u>	Perham, R.N., et al., "Engineering a peptide epitope display system on filamentous bacteriophage," <i>FEMS Microbiol. Rev.</i> 17:25-31, Elsevier Science Publishers on behalf of the Federation of European Microbiological Societies (1995)
	AS	<u>90</u>	Petrenko, V.A., et al., "A library of organic landscapes on filamentous phage," <i>Protein Engin.</i> 9:797-801, Oxford University Press (1996)
	AT	<u>90</u>	Pumpens, P. and Grens, E., "Hepatitis B core particles as a universal display model: a structure-function basis for development," <i>FEBS Lett.</i> 442:1-6, Elsevier Science B.V. on behalf of the Federation of European Biochemical Societies (1999)

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	AR	<u>91</u>	Quash, G., et al., "The preparation of latex particles with covalently bound polyamines IgG and measles agglutinins and their use in visual agglutination tests," <i>J. Immunol. Methods</i> 22:165-174, Elsevier/North-Holland Biomedical Press (1978)
	AS	<u>91</u>	Raychaudhuri, S., and Rock, K.L., "Fully mobilizing host defense: Building better vaccines," <i>Nat. Biotechnol.</i> 16:1025-1031, Nature America, Inc. (1998)
	AT	<u>91</u>	Redfield, R.R., et al., "Disseminated vaccinia in a military recruit with Human Immunodeficiency Virus (HIV) disease," <i>N. Eng. J. Med.</i> 316:673-676, Massachusetts Medical Society (1987)

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	AR	92	Rudolf, M.P., et al., Molecular Basis for Nonanaphylactogenicity of a Monoclonal Anti-IgE Antibody," <i>J. Immunol.</i> 165:813-819, The American Association of Immunologists (2000)
	AS	92	Sedlik, C., et al., "Recombinant parvovirus-like particles as an antigen carrier: A novel nonreplicative exogenous antigen to elicit protective antiviral cytotoxic T cells," <i>Proc. Natl. Acad. Sci. USA</i> 94:7503-7508, National Academy Press (1997)
	AT	92	Shen, L., et al., "Recombinant Virus Vaccine-Induced SIV-Specific CD8 ⁺ Cytotoxic T Lymphocytes," <i>Science</i> 252:440-443, American Association for the Advancement of Science (1991)

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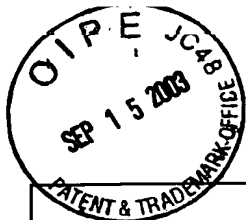
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	AR	93	Tanimori, H., et al., "Enzyme Immunoassay of Neocarzinostatin Using β -Galactosidase as Label," <i>J. Pharm. Dyn.</i> 4:812-819, Pharmaceutical Society of Japan (1981)
	AS	93	Townsend, A., and Bodmer, H., "Antigen recognition by class I-restricted T lymphocytes," <i>Ann. Rev. Immunol.</i> 7:601-624, Annual Reviews, Inc. (1989)
	AT	93	Van Cott, T.C., et al., "Antibodies with Specificity to Native gp120 and Neutralization Activity against Primary Human Immunodeficiency Virus Type 1 Isolates Elicited by Immunization with Oligomeric gp160," <i>J. Virol.</i> 71:4319-4330, American Society for Microbiology (1997)

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	AR	94	Watkins, S.J., et al., "The 'adenobody' approach to viral targeting: specific and enhanced adenoviral gene delivery," <i>Gene Ther.</i> 4:1004-1012, Stockton Press (1997)
	AS	94	Willis, A.E., et al., "Immunological properties of foreign peptides in multiple display on a filamentous bacteriophage," <i>Gene</i> 128:79-83, Elsevier Science Publishers B.V. (1993)
	AT	94	Dialog File 351, Accession No. 7431992, Derwent WPI English language abstract for WO 94/06472 (Document AP3)

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	95	International Preliminary Examination Report for International Application No. PCT/IB99/01925, European Patent Office, Munich (August, 2000) (not for publication)
	AS	95	International Search Report for International Application No. PCT/IB99/01925, European Patent Office, Netherlands (June, 2000) (not for publication)
	AT		

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.